

Figure 1

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5'          11          21          31          41          51
+1 M C D L P Q T H S L G N R R A L I L L A
1 ATGTGCGACC TGCCGCAGAC CCACTCCCTG GGTAACCGTC GTGCTCTGAT CCTGCTGGCT
TACACGCTGG ACGGCGTCTG GGTGAGGGAC CCATTGGCAG CACGAGACTA GGACGACCGA

5'          71          81          91          101          111
+1 Q M R R I S P F S C L K D R H D F G F P
61 CAGATGCGTC GTATCTCCCC GTTCTCCTGC CTGAAAGACC GTCACGACTT CGGTTTCCCG
GTCTACGCAG CATAGAGGGG CAAGAGGACG GACTTTCTGG CAGTGCTGAA GCCAAAGGGC

5'          131          141          151          161          171
+1 Q E E F D G N Q F Q K A Q A I S V L H E
121 CAGGAAGAAT TCGACGGTAA CCAGTTCCAG AAAGCTCAGG CTATCTCCGT TCTGCACGAA
GTCCTTCTTA AGCTGCCATT GGTCAAGGTC TTTGAGTCC GATAGAGGCA AGACGTGCTT

5'          191          201          211          221          231
+1 M I Q Q T F N L F S T K D S S A A W D E
181 ATGATCCAGC AGACCTTCAA CCTGTTCTCC ACCAAAGACT CCTCCGCTGC TTGGGACGAA
TACTAGGTCG TCTGGAAGTT GGACAAGAGG TGGTTTCTGA GGAGGCGACG AACCTGCTT

5'          251          261          271          281          291
+1 S L L E K F Y T E L Y Q Q L N D L E A C
241 TCCCTGCTGG AAAAATTCTA CACCGAACTG TACCAGCAGC TGAACGACCT GGAAGCTTGC
AGGGACGACC TTTTAAAGAT GTGGCTTGAC ATGGTCGTCG ACTTGCTGGA CCTTCGAACG

5'          311          321          331          341          351
+1 V I Q E V G V E E T P L M N V D S I L A
301 GTTATCCAGG AAGTTGGTGT TGAAGAAACC CCGCTGATGA ACGTTGACTC CATCCTGGCT
CAATAGGTCC TTCAACCACA ACTTCTTTGG GCGGACTACT TGCAACTGAG GTAGGACCGA

5'          371          381          391          401          411
+1 V K K Y F Q R I T L Y L T E K K Y S P C
361 GTTAAAAAAT ACTTCCAGCG TATCACCTG TACCTGACCG AAAAAAATA CTCCCCGTGC
CAATTTTTTA TGAAGGTCGC ATAGTGGGAC ATGGACTGGC TTTTTTTTAT GAGGGGCACG

5'          431          441          451          461          471
+1 A W E V V R A E I M R S F S L S T N L Q
421 GCTTGGGAAG TTGTTCTGTC TGAAATCATG CGTTCCTTCT CCCTGTCCAC CAACCTGCAG
CGAACCCTTC AACAAGCAGC ACTTTAGTAC GCAAGGAAGA GGGACAGGTG GTTGGACGTC

5'          491          501
+1 E R L R R K E #
481 GAACGTCTGC GTCGTAAAGA ATAA
CTTGCAGACG CAGCATTTCT TATT
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Figure 2

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5'          11          21          31          41          51
+1 M C D L P Q T H S L G N R R A L I L L A
1 ATGTGTGATT TACCTCAAAC TCATTCTCTT GGTAACCGTC GCGCTCTGAT TCTGCTGGCA
TACACACTAA ATGGAGTTTG AGTAAGAGAA CCATTGGCAG CGCGAGACTA AGACGACCGT

5'          71          81          91          1          11
+1 Q M R R I S P F S C L K D R H D F G F P
61 CAGATGCGTC GTATTTCCCC GTTTAGCTGC CTGAAAGACC GTCACGACTT CGGCTTTCCG
GTCTACGCAG CATAAAGGGG CAAATCGACG GACTTTCTGG CAGTGCTGAA GCCGAAAGGC

5'          31          41          51          61          71
+1 Q E E F D G N Q F Q K A Q A I S V L H E
121 CAAGAAGAGT TCGATGGCAA CCAATTCCAG AAAGCTCAGG CAATCTCTGT ACTGCACGAA
GTTCTTCTCA AGCTACCGTT GGTTAAGGTC TTTGAGTCC GTTAGAGACA TGACGTGCTT

5'          91          1          11          21          31
+1 M I Q Q T F N L F S T K D S S A A W D E
181 ATGATCCAAC AGACCTTCAA CCTGTTTTCC ACTAAAGACA GCTCTGCTGC TTGGGACGAA
TACTAGGTTG TCTGGAAGTT GGACAAAAGG TGATTCTGT CGAGACGACG AACCTGCTT

5'          51          61          71          81          91
+1 S L L E K F Y T E L Y Q Q L N D L E A C
241 AGCTTGCTGG AGAAGTTCTA CACTGAACTG TATCAGCAGC TGAACGACCT GGAAGCATGC
TCGAACGACC TCTTCAAGAT GTGACTTGAC ATAGTCGTCG ACTTGCTGGA CCTTCGTACG

5'          11          21          31          41          51
+1 V I Q E V G V E E T P L M N V D S I L A
301 GTAATCCAGG AAGTTGGTGT AGAAGAGACT CCGCTGATGA ACGTCGACTC TATTCTGGCA
CATTAGGTCC TTCAACCACA TCTTCTCTGA GGCGACTACT TGCAGCTGAG ATAAGACCGT

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Figure 3

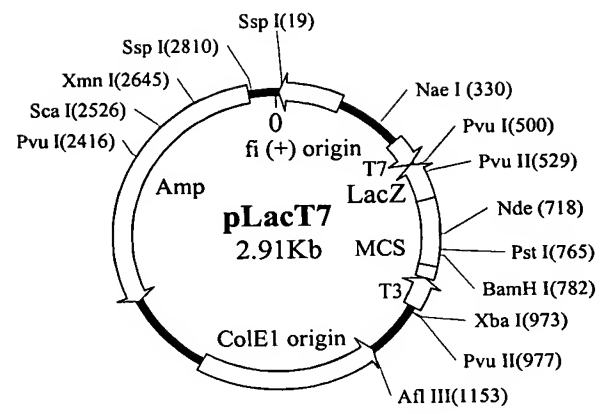


Figure 4

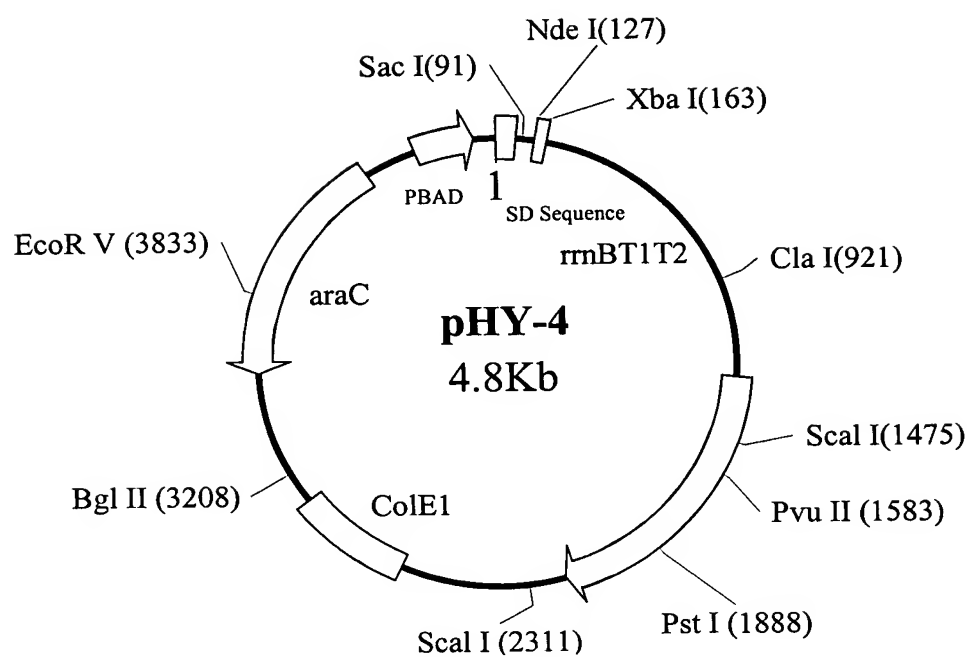


Figure 5

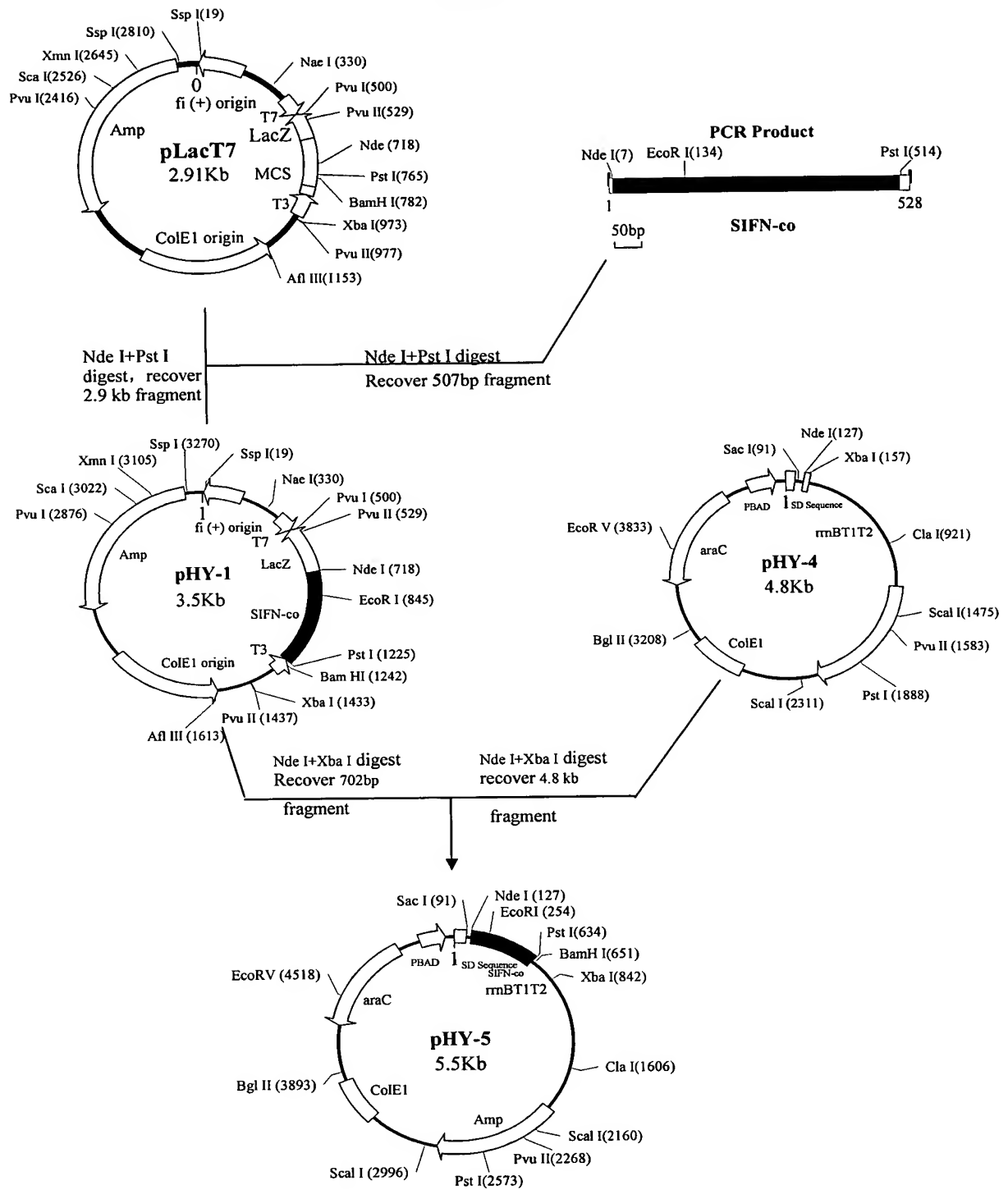


Figure 6-A

Circular Dichroism spectra

Tested by Analysis and Measurement Center of Sichuan University.

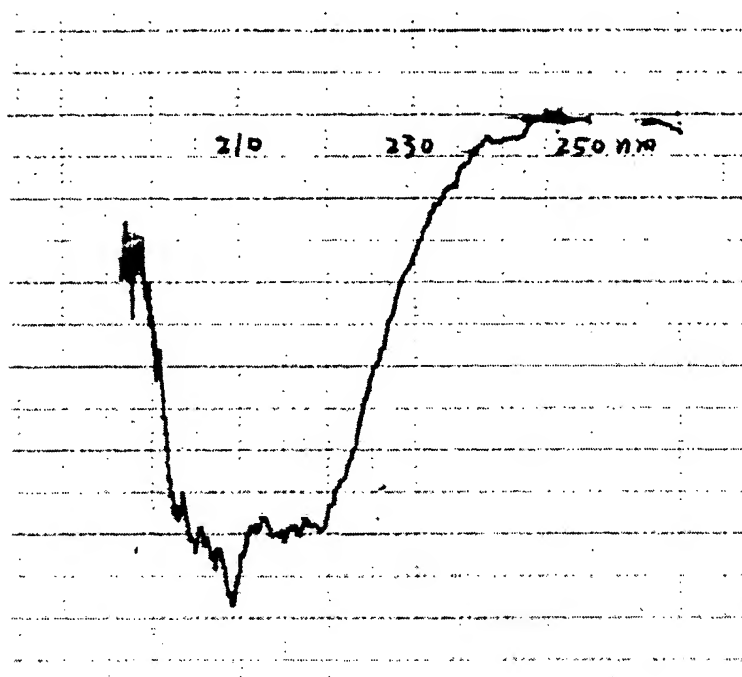


Fig 6-A Circular Dichroism spectrum of Infergen

Spectrum range: 250nm - 190nm

Sensitivity: 2 m°/cm

Light path: 0.20 cm

Equipment: Circular Dichroism J-500C

Samples :contain 30μg/ml IFN-con1, 5.9 mg/ml of NaCl and 3.8 mg/ml of Na₂PO₄, pH7.0.

Figure 6-B

HUMAN ALPHA SPECIES CONSENSUS IFN

495

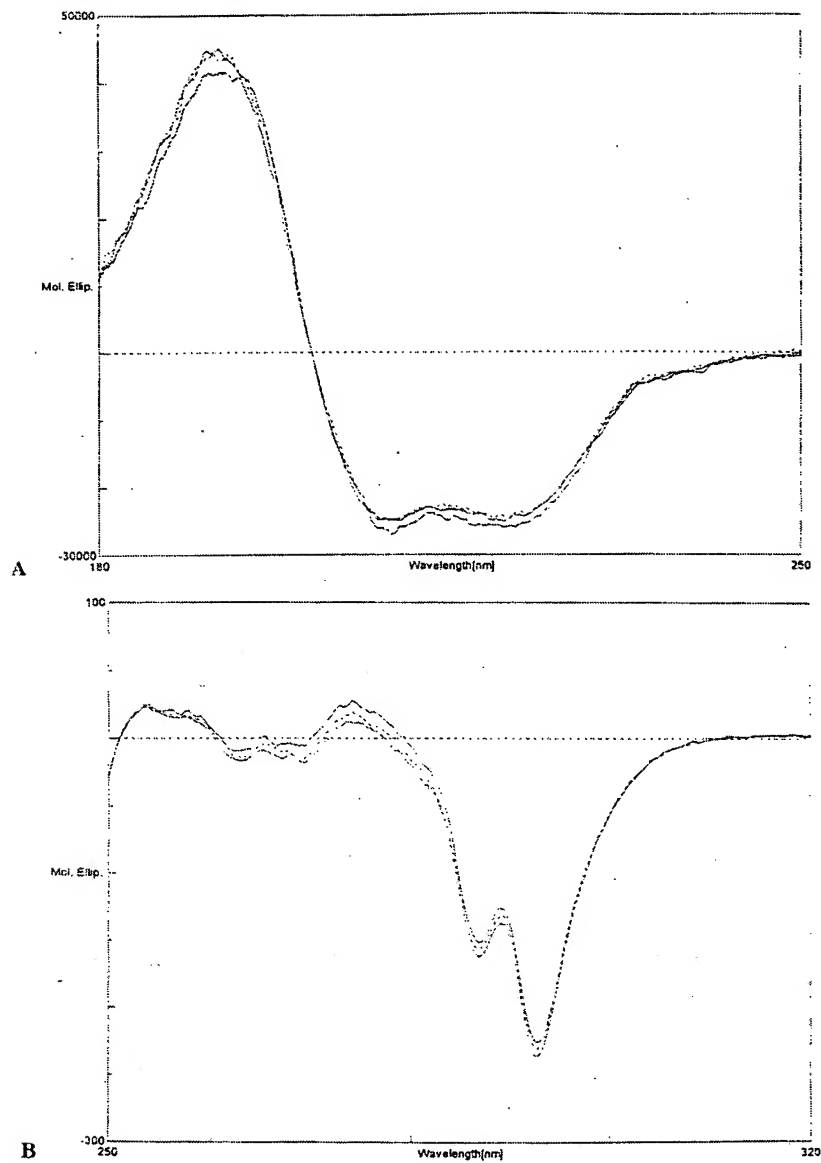


FIG. 3. Circular dichroism spectra of consensus interferon subforms. Consensus interferon was fractionated using an anion exchange column, as shown in Figure 2. Samples were dialyzed into 10 mM sodium phosphate, pH 7.4. Measurements were made on a Jasco J-170 spectropolarimeter, in a cell thermostat at 15°C. (—), acylated form; (---), cys terminal form; (....), met terminal form. A. Far UV spectrum. B. Near UV spectrum.

Fig 6-B Circular Dichroism spectrum of Infergen From Reference[Journal of Interferon and cytokine Research. 16:489-499(1996)]

Figure 6-C

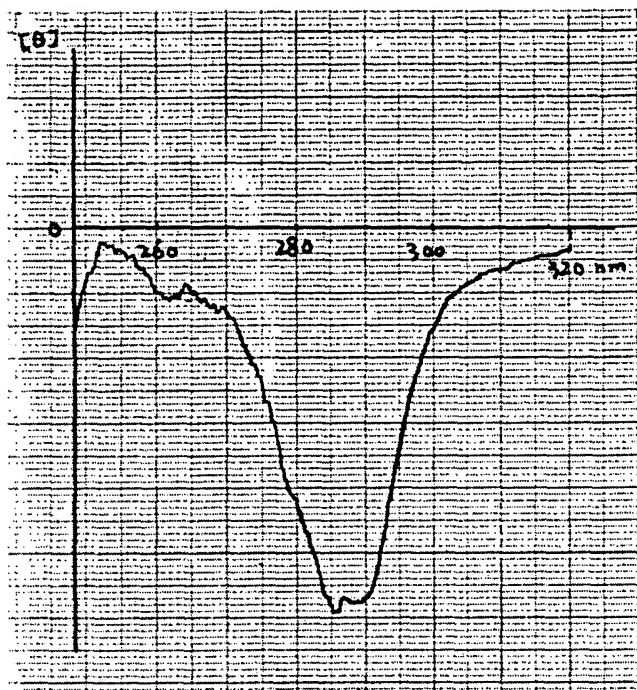


Fig 6-C Circular Dichroism spectrum of rSIFN-co

Spectrum range: 320nm-250nm

Sensitivity: 2 m°/cm

Light path: 2cm

Equipment: Circular Dichroism J-500C

Samples : contain 0.5mg/ml rSIFN-co, 5.9 mg/ml of NaCl and 3.8 mg/ml of Na₂PO₄, pH7.0.

Figure 6-D

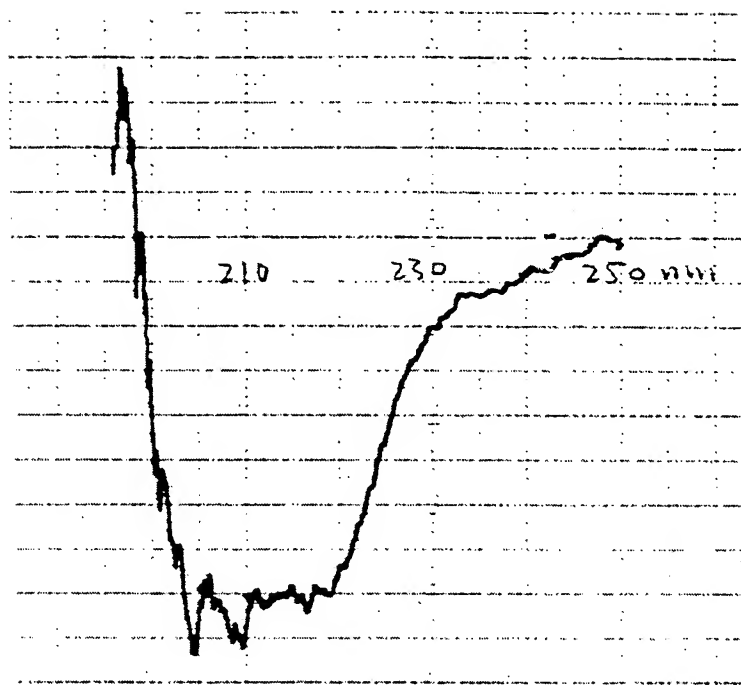


Fig 6-D Circular Dichroism spectrum of rSIFN-co

Spectrum range: 250nm – 190nm

Sensitivity: 2 m°/cm

Light path: 0.20 cm

Equipment: Circular Dichroism J-500C

Samples : contain 30µg/ml rSIFN-co, 5.9 mg/ml of NaCl and 3.8 mg/ml of Na₂PO₄, pH7.0.